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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/019,954	05/24/2002	Eric Samain	065691-0267	6242	
	7590 01/31/200 LARDNER LLP	EXAMINER			
SUITE 500 3000 K STREE	T NIW		PROUTY, REBECCA E		
WASHINGTO			ART UNIT	PAPER NUMBER	
			1652		
			MAIL DATE	DELIVERY MODE	
			01/31/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/019,954	SAMAIN ET AL.		
Examiner	Art Unit		
Rebecca E. Prouty	1652		

•	- Adminior	1	1				
	Rebecca E. Prouty	1652					
The MAILING DATE of this communication appe	ears on the cover sheet with the c	correspondence add	lress				
THE REPLY FILED <u>28 December 2006</u> FAILS TO PLACE THIS	S APPLICATION IN CONDITION F	OR ALLOWANCE.					
☑ The reply was filed after a final rejection, but prior to filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:							
a) The period for reply expires 4 months from the mailing date	duices: Action or (2) the date set forth	in the final rejection, wh	ichever is later In				
The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.  Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN							
TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).							
Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  NOTICE OF APPEAL							
<ol> <li>The reply was filed after the date of filing a Notice of App</li> </ol>	eal, but prior to the date of filing an	appeal brief. The No	tice of Appeal				
was filed on A brief in compliance with 37 CFR 4 Appeal (37 CFR 41.37(a)), or any extension thereof (37 Chas been filed, any reply must be filed within the time per	1.37 must be filed within two month CFR 41.37(e)), to avoid dismissal o	is of the date of filing	the Notice of				
AMENDMENTS	hut rules to the date of filing a brief	will not be entered by	0001160				
The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will <u>not</u> be entered because  (a) They raise new issues that would require further consideration and/or search (see NOTE below);  (b) They raise the issue of new matter (see NOTE below);							
(c) They are not deemed to place the application in be appeal; and/or		educing or simplifying	the issues for				
(d) They present additional claims without canceling a	corresponding number of finally re	ejected claims.					
NOTE: (See 37 CFR 1.116 and 41.33(a)).		,					
4. The amendments are not in compliance with 37 CFR 1.1		mpliant Amendment	(PTOL-324).				
5. Applicant's reply has overcome the following rejection(s)		•	,				
6. Newly proposed or amended claim(s) would be al non-allowable claim(s).		timely filed amendme	ent canceling the				
7.  For purposes of appeal, the proposed amendment(s): a) the new or amended claims would be rejected is provided. The status of the claim(s) is (or will be) as follows:	☑ will not be entered, or b)⊠ will b d below or appended.	e entered and an exp	planation of how				
Claim(s) allowed:		1					
Claim(s) objected to:							
Claim(s) rejected: <u>1,2,5-13,18-20,26-28,30 and 39</u> .	21. 29 and 40. 46						
Claim(s) withdrawn from consideration: <u>15-17,21-24,29,3</u> AFFIDAVIT OR OTHER EVIDENCE	11-38 and 40-40.						
8. ☐ The affidavit or other evidence filed after a final action, but	it before or on the date of filing a N	lotice of Appeal will n	ot be entered				
because applicant failed to provide a showing of good ar was not earlier presented. See 37 CFR 1.116(e).	nd sufficient reasons why the affidar	vit or other evidence i	s necessary and				
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessary.	overcome <u>all</u> rejections under appe	al and/or appellant fa	ils to provide a				
showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).  The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.							
REQUEST FOR RECONSIDERATION/OTHER	· · · · · ·	inity to bolow of attac					
<ol> <li>The request for reconsideration has been considered by see attached.</li> </ol>	ut does NOT place the application i	n condition for allowa	nce because:				
12. Note the attached Information Disclosure Statement(s).	(PTO/SB/08 or PTO-1449) Paper I	Vo(s)					
13. Other:							
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Applicants argue that the amendments to the claims to limit the cells to E. coli and the oligosaccharide of interest to an oligosaccharide comprising lactose should overcome the previous 112, first paragraph rejections for lack of sufficient written description. However, the amendments to the claims do not change the fact that the claims still recite the production of an enormous number of varied oligosaccharides each of which require distinctly different sets of genes and requires detailed knowledge of the biosynthetic pathways for the synthesis of the desired oligosaccharide, knowledge of the source of all enzymes necessary for such synthesis, knowledge of the metabolic/catabolic pathways present in E. coli which would impact on the synthesis/degradation of the desired oligosaccharide and detailed knowledge of how these factors are interrelated such that one obtains the desired result. the reasons previously presented, the instant disclosure is insufficient.

Applicants argue that the 103 rejections should be withdrawn as one of skill in the art would have no motivation to combine Bettler and Kozumi, much less any expectation of success as it was known in the art that rapid uptake of sugars by lactose permease disrupts membrane function, possibly by causing collapse of the membrane potential and results in growth

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inhibition and eventually cell death. Applicants argue that according to the claimed method, the cells can be grown on glucose or glycerol, and since their lactose permease is induced by IPTG, they should be killed by lactose. However, this is not persuasive because there is no requirement in the claims that the level of lactose permease induction is sufficiently high to cause cell death. The disclosure of Dykhuizen et al. makes it clear that there is a strong correlation between the amount of lactose permease and the amount of lactose killing (see pg 878). As such a skilled artisan would merely have found it obvious to simply allow the cells to grow in the absence of inducer until a desired cell density is achieved and then add the inducer only during the oligosaccharide synthesis step and to keep the amount of inducer low such that lactose killing would be avoided.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rebecca E. Prouty whose telephone number is 571-272-0937. The examiner can normally be reached on Tuesday-Friday from 8 AM to 5 PM. The examiner can also be reached on alternate Mondays

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached at (571) 272-0928. The fax phone number for this Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system,

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see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rebecca Prouty Primary Examiner Art Unit 1652 Page 4